

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor : Masafumi TSUTSUI
U. S. Patent No. : 7,684,369 B2
Serial No. : 10/789,749
Issued : March 23, 2010
For : RADIO BASE STATION...

July 7, 2010

Certificate of Corrections Branch
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

REQUEST FOR A CERTIFICATE OF CORRECTION

SIR:

We request a Certificate of Correction under 35 U.S.C. §254, to correct the following error below:

The title of the invention was incorrectly listed as “**RADIO BASED STATION APPARATUS AND BASE STATION CONTROLLER.**” instead of “**RADIO BASE STATION APPARATUS AND BASE STATION CONTROLLER.**” Please change the same to read: **RADIO BASE STATION APPARATUS AND BASE STATION CONTROLLER.**

Attached, please find a copy of the front page of the Patent, page 1 of the Specification and Declaration and Power of Attorney for Patent Application.

This was due to an error made by the USPTO.

Any fee due as a result of this paper, may be charged to Deposit account No. 50-1290.

Respectfully submitted,

/Pedro Carlos Fernandez/_____

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Docket No.: FUJX 20.963(100794-00558)



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(12) **United States Patent**
Tajima

(10) **Patent No.:** **US 7,684,369 B2**
(45) **Date of Patent:** **Mar. 23, 2010**

→ (54) **RADIO-BASED STATION APPARATUS AND
BASE STATION CONTROLLER**

6,785,256 B2 * 8/2004 O'Neill 370/338

(75) **Inventor:** **Yoshiharu Tajima, Kawasaki (JP)**

(Continued)

(73) **Assignee:** **Fujitsu Limited, Kawasaki (JP)**

FOREIGN PATENT DOCUMENTS

(*) **Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

EP 1 128 704 8/2001

(21) **Appl. No.:** **10/789,749**

(Continued)

(22) **Filed:** **Feb. 27, 2004**

OTHER PUBLICATIONS

(65) **Prior Publication Data**

US 2004/0192390 A1 Sep. 30, 2004

Japanese Office Action issued Sep. 25, 2007, from the corresponding Japanese Application.

(30) **Foreign Application Priority Data**

Mar. 25, 2003 (JP) 2003-082830

Primary Examiner—Sharad Rampuria

(74) *Attorney, Agent, or Firm*—Katten Muchin Rosenman LLP

(51) **Int. Cl.**
H04W 4/00 (2009.01)

(57) **ABSTRACT**

(52) **U.S. Cl.** 370/331; 370/338; 370/328;
370/352; 455/41.2; 455/560; 455/436

(58) **Field of Classification Search** 455/436–438,
455/432.1–444, 560–562.1, 101, 41.2; 370/331–344,
370/328, 352, 401; 375/267, 347; 709/223
See application file for complete search history.

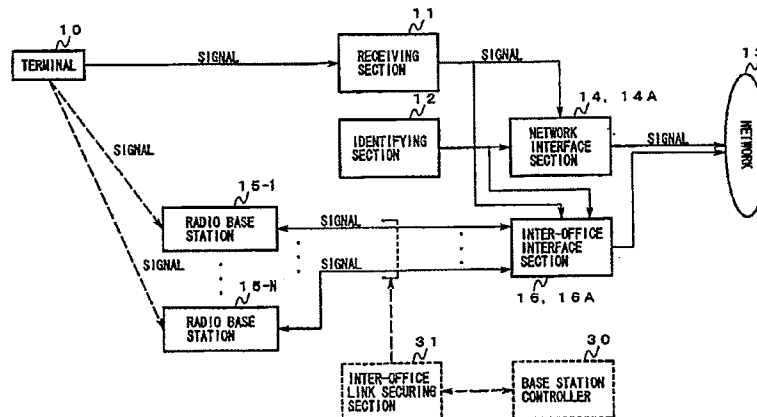
(56) **References Cited**

U.S. PATENT DOCUMENTS

5,101,501 A * 3/1992 Gilhousen et al. 455/442
5,432,843 A * 7/1995 Bonta 455/438
5,717,688 A * 2/1998 Belanger et al. 370/331
5,850,503 A * 12/1998 Onken 392/441
6,108,547 A * 8/2000 Yamashita et al. 455/442
6,195,705 B1 * 2/2001 Leung 709/245
6,393,482 B1 * 5/2002 Rai et al. 709/225
6,434,134 B1 * 8/2002 La Porta et al. 370/338
6,487,406 B1 * 11/2002 Chang et al. 455/422.1
6,578,066 B1 * 6/2003 Logan et al. 718/105
6,628,632 B1 * 9/2003 Dolan 370/332
6,674,734 B1 * 1/2004 Hsu et al. 370/331

The invention provides a radio base station apparatus forming a wireless zone in a mobile communication system and to a base station controller performing channel control over a terminal visiting a wireless zone. The radio base station apparatus has an identifying section identifying a particular radio base station that is to maintain a radio channel between the radio base station apparatus and a terminal during a process of diversity handover, a network interface section delivering a signal to a network if a local station is not the particular radio base station, and an inter-office interface section delivering to the network a composite wave of the signal and a signal having arrived and forwarded from the terminal via the radio channel at a radio base station forming a wireless zone adjacent to a wireless zone formed by the local station if the local station is the particular radio base station.

7 Claims, 7 Drawing Sheets



RADIO BASE STATION APPARATUS AND BASE STATION CONTROLLER

CROSS REFERENCE TO RELATED APPLICATION

This application is based upon and claims the benefit of priority from Japanese
5 Patent Application No. 2003-082830, filed on March 25, 2003, the entire contents of which
are incorporated herein by reference.

BACKGROUND OF THE INVENTION

1. Field of the Invention

10 The present invention relates to a radio base station apparatus that forms a wireless
zone in a mobile communication system in which a terminal or a call occurring at a terminal is
given different IP addresses for wireless zones. It also relates a base station controller that
performs a channel control over a terminal visiting a wireless zone.

2. Description of the Related Art

15 In recent years, data terminals and communication terminals accessible to the
Internet have spread rapidly. For radio transmission channels in next-generation mobile
communication systems, use of the IP (Internet protocol) has been studied, because of its
high compatibility with the Internet, for replacement the multiple access schemes which
20 comply with the circuit switching system. Also, radio transmission channels and line
transmission sections have become seamless step by step.

Fig. 6 shows the configuration of an exemplary mobile communication system in
which different IP addresses are assigned for respective wireless zones.

As shown in Fig. 6, radio base stations 70-1 and 70-2 form overlapping wireless
25 zones 81-1 and 81-2, respectively. A terminal 82 locates in one of the wireless zones 81-1

Declaration and Power of Attorney for Patent Application

特許出願宣言書及び委任状

Japanese Language Declaration

日本語宣言書

私は、以下に記名された発明者として、ここに下記の通り宣言する：

As a below named inventor, I hereby declare that

私の住所、郵便の宛先そして国籍は、私の氏名の後に記載された通りである。

My residence, post office address and citizenship are as stated next to my name.

下記の名称の発明について、特許請求範囲に記載され、且つ特許が求められている発明主題に関して、私は、最初、最先且つ唯一の発明者である（唯一の氏名が記載されている場合）か、或いは最初、最先且つ共同発明者である（複数の氏名が記載されている場合）と信じている。

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

RADIO BASE STATION APPARATUS AND BASE

STATION CONTROLLER

上記発明の明細書はここに添付されているが、下記の欄がチェックされている場合は、この限りでない：

the specification of which is attached hereto unless the following box is checked

☐ _____ の日に出願され、
この出願の米国出願番号または P.C.T 国際出願番号は、
_____ であり、且つ
_____ の日に補正された出願（該当する場合）

☐ was filed on _____
as United States Application Number or
PCT International Application Number
_____ and was amended on
_____ (if applicable).

私は、上記の補正書によって補正された、特許請求範囲を含む上記明細書を検討し、且つ内容を理解していることをここに表明する。

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

私は、連邦規則法典第 37 編規則 1.56 に定義されている、特許性について重要な情報を開示する義務があることを認める。

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

Japanese Language Declaration

(日本語宣言書)

私は、ここに、以下に記載した外国での特許出願または発明者証の出願、或いは米国以外の少なくとも一国を指定している米国法典第35編第365条(a)によるPCT国際出願について、同第119条(a)-(d)項又は第365条(b)項に基づいて優先権を主張するとともに、優先権を主張する本出願の出願日より前の出願日を有する外国での特許出願または発明者証の出願、或いはPCT国際出願については、いかなる出願も、下記の枠内をチェックすることにより示した。

I hereby claim foreign priority under Title 35, United States Code, Section 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT International application which designated at least one country other than the United States listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application for which priority is claimed.

Prior Foreign Application(s)

外国での先行出願

Priority Not Claimed

優先権主張なし

2003-082830

(Number)
(番号)

JAPAN

(Country)
(国名)

25/03/2003

(Day/Month/Year Filed)
(出願日/月/年)

☐

(Number)
(番号)

(Country)
(国名)

(Day/Month/Year Filed)
(出願日/月/年)

☐

私は、ここに、下記のいかなる米国仮特許出願についても、その米国法典第35編119条(e)項の利益を主張する。

I hereby claim the benefit under Title 35, United States Code, Section 119(e) of any United States provisional application(s) listed below.

(Application No.)
(出願番号)

(Filing Date)
(出願日)

(Application No.)
(出願番号)

(Filing Date)
(出願日)

私は、ここに、下記のいかなる米国出願についても、その米国法典第35編第120条に基づく利益を主張し、又米国を指定するいかなるPCT国際出願についても、その同第365条(c)に基づく利益を主張する。また、本出願の各特許請求の範囲の主題が、米国法典第35編第112条第1段に規定された態様で、先行する米国出願又はPCT国際出願に開示されていない場合においては、その先行出願の出願日と本国内出願日またはPCT国際出願日との間の期間中に入手された情報で、連邦規則法典第37編規則1.56に定義された特許性に関わる重要な情報について開示義務があることを承認する。

I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s), or 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code Section 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of application.

(Application No.)
(出願番号)

(Filing Date)
(出願日)

(Status: Patented, Pending, Abandoned)
(現況 : 特許許可、係属中、放棄)

(Application No.)
(出願番号)

(Filing Date)
(出願日)

(Status: Patented, Pending, Abandoned)
(現況 : 特許許可、係属中、放棄)

私は、ここに表明された私自身の知識に係わる陳述が真実であり、且つ情報と信ずることに基づく陳述が、真実であると信じられることを宣言し、さらに、故意に虚偽の陳述などを行った場合は、米国法典第18編第1001条に基づき、罰金または拘禁、若しくはその両方により処罰され、またそのような故意による虚偽の陳述は、本出願またはそれに対して発行されるいかなる特許も、その有効性に問題が生ずることを理解した上で陳述が行われたことを、ここに宣言する。

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Japanese Language Declaration
(日本語宣言書)

委任状: 私は本出願を審査する手続を行い、且つ米国特許商標庁との全ての業務を遂行するために、記名された発明者として、下記の弁護士及び/または弁理士を任命する。(氏名及び登録番号を記載すること)

Aaron B. Karas, #18,923; Samson Helfgott, #23,072; Linda S. Chan, #42,400; Michael Markowitz, #30,659; Brian S. Myers, #46,947; Harris A. Wolin, #39,432; Shahan Islam, #32,507; Serle Mosoff #25,900; Emma Shleifer, #29,734; and Thomas J. Bean, #44,528.

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith (list name and registration number).

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Full name of sole or first inventor
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日付

Inventor's signature

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Citizenship

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Post Office Address

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すること)

(Supply similar information and signature for third and subsequent
joint inventors.)